

AMENDMENTS TO THE CLAIMS

1. (ORIGINAL) A nucleic acid containing a nucleotide sequence encoding a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, or a biologically active derivative thereof, said polypeptide or biologically active derivative thereof being a target for herbicidal compounds in plants.
2. (ORIGINAL) The nucleic acid according to claim 1, wherein said nucleotide sequence is selected from the group consisting of SEQ ID No. 1 and SEQ ID No. 2.
3. (CURRENTLY AMENDED) A vector containing the nucleic acid according to claim 1 ~~or 2~~.
4. (CURRENTLY AMENDED) A host organism containing the nucleic acid according to claim 1 ~~or 2 or the vector according to claim 3~~.
5. (CURRENTLY AMENDED) A transgenic plant containing the nucleic acid according to claim 1 ~~or 2 or the vector according to claim 3~~.
6. (ORIGINAL) A polypeptide having an amino acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, or a biologically active derivative thereof, said polypeptide or biologically active derivative thereof being a target for herbicidal compounds in plants.

7. (ORIGINAL) A method for developing herbicidal compounds, comprising the steps of:
  - contacting a test system containing a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, or a biologically active derivative thereof, with a candidate compound to be assayed; and
  - measuring the herbicidal activity of said candidate compound.
8. (ORIGINAL) A herbicidal compound obtained by using the method according to claim 7.
9. (NEW) A vector containing the nucleic acid according to claim 2.
10. (NEW) A host organism containing the nucleic acid according to claim 2.
11. (NEW) A host organism containing the vector according to claim 3.
12. (NEW) A transgenic plant containing the nucleic acid according to claim 2.
13. (NEW) A transgenic plant containing the vector according to claim 3.